Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. 1st & Part bill Date.....20.....

Division:

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.....

Name of Work: Widening & Comprehensive Development of Singapura Garden Road from Abbigere Main Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout)

Name of Contractor and Full Address:

Work Order No: EE|RI-Dhalli|WO|03|2021-22 Dt: 19|7|2021

Agreement No: EE|RI-Dhalli|AG|03|2021-22 Dt: 19|7|2021

Job Code: 012-21-000004

Certified that the measurements were taken by me on 30|7|2022 and recorded in pages 142878 to 142883 Of measurement Book No. 1429/10-11 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurements were taken by me on 30|7|2022. and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

If Memorandum of Payment 1st & Fpac Bill

1) Total value of work done or supplies made as per account within		
2) Deduct amount to be held in reserve being.....percent Rs.....		
3) Deduct amount to be held in Balance		
4) Deduct Payment :		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....		
Amount adjusted towards cash advance recovery of		
b) Payments cost store or other materials supplied.		
Now made recovery of amount creditable to this/other work		
Amount paid on this bill Cheque/Cash		
5) Balance being unpaid value of work done held in reserve		
6) Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments		
7) Net amount due to or from contractor		
Unadjusted items		
8) Advance to contractor for materials brought to site (as detailed) within value of Governme materials supplied		

Gross	=	32694000=00
IT	=	588821=00
GUST	=	291910=00
ICUST	=	291910=00
LWC	=	291910=00
CBR	=	291911=00
RC	=	386885=00
AS	=	1875627=00
NW	=	30818373=00

Contractor's Signature

Received Rs.....(in words)

By Cash and by adjustment of Payment as per memorandum.

Witnesses :

1.

2.

Dated.....Signature of Contractor

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

(For use in the Office)

Audited & Admitted for Rs. 32694000=00

Passed for Rs. 30818373=00

(Rupees Three Crore Eight Lakh Eighteen thousand three hundred seventy three Only

Rs. 30818373=00 By Cheque

Rs. 1875627=00 By Adjustment

Auditor Superintendent Executive Engineer

Initials of Officer Making Payment

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ABSTRACT BILL

Widening & Comprehensive Development of Singapura Garden Road from Abbigere Main Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout)

Sl.No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
1	KSRRB M200-32. Removal of Telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and stacking the serviceable and unserviceable material separatelycomplete as per specifications. MORTH Specification No. 202	Nos	52.00	238.83	12419.16	-	-	0.00	238.83	0.00	0.00	0.00
2	"KSRRB M200-29. Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications.MORTH Specification No. 202	M	260.00	72.95	18967.00	-	-	0.00	72.95	0.00	0.00	0.00
3	KSRRB M20Q-17.1.Dismantling of existing Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts - A.Including dismembering." complete as per specifications.	Tonne	1.00	2085.54	2085.54	-	-	0.00	2085.54	0.00	0.00	0.00
4	KSRRB 200-1. Cutting of trees girth from 300mm to 600mm including cutting of trunks, branches and removal of stumps roots stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH specification clause 201/ Chapter 2 300-600mm	Nos	5.00	329.77	1648.85	-	-	0.00	329.77	0.00	0.00	0.00
5	- do- KSRRB M200-2 : - do - 600mm to 900mm	Nos	25.00	1015.29	25382.25	-	-	0.00	1015.29	0.00	0.00	0.00
6	KSRRB M200-3: - do - 900mm to 1800mm	Nos	10.00	2471.27	24712.70	-	-	0.00	2471.27	0.00	0.00	0.00
7	KSRRB M200-4: - do - 1800mm to 2700mm	Nos	6.00	3843.31	23059.86	-	-	0.00	3843.31	0.00	0.00	0.00
8	KSRRB M200-14.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications, B. In cement mortar. MORTH Specification No. 202 KSRRB M200-14.2. -d o - Dismantling brick/Tile work B. In cement mortar including loading and unloading and disposal to a lead of 20km as per direction of Engineer In Charge	Cum	170.90	506.65	86586.99	-	-	0.00	506.65	0.00	0.00	0.00
9	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications,iii) Dismantling Stone Masonry. MORTH Specification No. 202 KSRRB M 200-15.2. -d o - B. Rubble stone masonry in cement mortar.	Cum	330.97	386.73	127996.80	-	-	0.00	386.73	0.00	0.00	0.00
10	Disposable of dismantaled unservicable Rubble stone masonry including with all loading and unloading and disposed to a lead up to 20km as per the direction of Engineer incharge	Cum	281.33	119.92	33736.64	-	-	0.00	119.92	0.00	0.00	0.00
11	KSRRB M200-13.1. Dismantling of existing Structures like Culverts, Bridges, Retaining Walls and other Structures comprising of Masonry, Cement Concrete, Wood Work, Steel Work, including T & P and Scaffolding wherever necessary, sorting the dismantled Material, disposal of unserviceble Material, disposal of unserviceble Material and stacking the serviceble Material and serviceble Material with all lifts complete as per Specifications. By mechanical means, A cement concrete grade M-15 & M-20 including loading and unloading and disposal to a lead of 20km As per the direction of the engineer Incharge	Cum	289.50	549.62	159114.99	-	-	0.00	549.62	0.00	0.00	0.00
12	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications.MORTH Specification No. 202	m	590.00	12.99	7664.10	-	-	0.00	12.99	0.00	0.00	0.00

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Sl.No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
13	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, rass, brush, shrubs, saplings and trees of girth upto 300mm,by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 (Throny Jungle)	Sqm	9650.00	10.99	106053.50	-	-	0.00	10.99	0.00	0.00	0.00
14	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications. MORTH I Chapter 3	Sqm	1705.00	42.97	73263.85	-	-	1624.44	42.97	69802.19	1624.44	69802.19
15	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 21.00 km and complete as per specifications. MORTH Specification No.301	Cum	10821.73	44.97	486653.20	-	-	4475.05	44.97	201242.77	4475.05	201242.77
16	Earth work in excavation for foundation of structures like culverts , retaining walls etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specifications, including cost of labour, HOM etc, complete. in all kinds of soil by Mechanical means	Cum	528.00	49.97	26384.16	-	-	508.02	49.97	25385.76	508.02	25385.76
17	Disposable of excavated un servicable road way earth with all lead of 19 km as per the direction of Engineer in charge	Cum	10821.73	50.96	551475.36	-	-	4983.07	50.96	253936.99	4983.07	253936.99
18	KSRRB M300-54.Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 complete asper specifications. Which includes, watering charges & compaction by vibratory roller) MORTH Specification No. 305	Cum	1129.65	104.93	118534.17	-	-	1129.65	104.93	118534.17	1129.65	118534.17
19	KSRRB M300-53. Construction of sub-grade and earthen shoulders with approved material Gravel/Murrum with all lifts & leads, transporting to site,spreading, grading to of watering charges & compaction by vibratory roller to 97% of modified Table No. 300-2 complete as per specifications, including cost of earth,required slope and compacted to meet requirement watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No. 305	Cum	1922.70 1983	357.75	687845.93	-	-	0.00	357.75	0.00	0.00	0.00
20	Providing and laying in possition plain cement concrete of mix 1:2:4 for sub-structure works like Culverts,retaining walls etc.,with cement@ 240 kgs, 40 mm & down size graded granite metal coarse aggreate @ 0.84 cum and fin aggregates @ 0.46cum machine mixed, with necessary scoffolding form work etc., including cost of labour, HOM curing etc., complete	Cum	395.94 HRO	5220.34	2066941.42	-	-	337.49	5220.34	1761806.02	337.49	1761806.02
21	Providing and laying in position plain/Reinforced cement cement concrete M20 for sub-structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary with necessary scaffolding,form work etc., including cost of labour, HOM curing etc., complete.	Cum	611.10	5617.07	3432591.48	-	-	319.26	5617.07	1793293.13	319.26	1793293.13
22	KSRRB M2200-5.9. Providing and laying Design mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. - i) Upto 5 m height	Cum	950.10	5830.92	5539957.09	-	-	495.09	5830.92	2886816.48	495.09	2886816.48
23	KSRRB M2200-6. Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking placing in position lapping and /or welding wherever required , tying with binding wire and anchoring to the adjoining members wherever necessary complete as design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No. 1600 & 2200. TMT Bars Fe 500	Tonne	62.75	67601.65	4240752.91	-	-	62.73	67601.65	4240752.91	62.73	4240752.91

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Sl.No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
24	KSRRB M2203-8 Providing weep holes in Brick masonry wrapping / Plain /Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe wrapping with Geotextile to prevent the earth, extending through the full width of the structure with slope of 1V :20H towards drawing force Complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per Specifications MORTH Specification No 2706 & 2200	Nos/Mtr	60.00	205.86	12351.60	-	-	0.00	205.86	0.00	0.00	0.00
25	KSRB M2600-3, (n) providing and fixing 250mm wide,20mm thick compressable fibre board in expansion joint complete as per drawing and Technical Specification including cost of materials and labour,HOM complete as per specifications, MORTH Specification No 2605	Sqm	95.00	130.91	12436.45	-	-	0.00	130.91	0.00	0.00	0.00
26	KSRRB M2200-9 Providing and laying of Filter media with granular materials /stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2 of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification including cost of materials, labour, HOM complete as per specifications MORTH Specification No 2504.2.2	Cum	72.00	2347.36	169009.92	-	-	72.00	2347.36	169009.92	72.00	169009.92
27	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM, curing, lead and lift charges etc, Complete as per MORTH specifications No 1500,1700	m	1514.40	1191.17	1803907.85	-	-	1273.00	1191.17	1516359.41	1273.00	1516359.41
28	Removing & Refixing stone slabs of drains and pointing in C M (1:3) in all respects as directed by the Engineer In charge	Sqm	177.00	115.92	20517.84	-	-	0.00	115.92	0.00	0.00	0.00
29	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision	Cum	1382.00	2073.55	2866579.20	-	-	1382.00	2073.55	2866579.20 2865646	1382.00	2866579.20 2865646
30	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications MORTH Specification No 406	Cum	2293.75 2294	2079.54	4769944.88	-	-	2293.75	2079.54	4769944.88	2293.75	4769944.88
31	KSRB 5.2 Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 KSRB 5.2-3 - do - cement mortar 1:6 KBS 5.1.13	Cum	58.00	5063.45	295473.57	-	-	58.00	5063.45	295473.57 293680	58.00	295473.57 293680
32	Providing and constructing with avilable granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, HOM, curing complete as per specifications KBS 5.1.13 IN Cement Mortar 1:6	Cum	49.65 50	3416.61	169620.34	-	-	0.00	3416.61	0.00	0.00	0.00
33	Providing flush pointing to square rubble , course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour,HOM curing complete as per specifications in cement mortar 1:3	Sqm	450.00	153.89	69250.50	-	-	450.00	153.89	69250.50	450.00	69250.50

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No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
4	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 with solid concrete blocks of size 400x150x200mm	Sqm	382.50 383	1018.29	389495.93	-	-	382.50	1018.29	389495.93	382.50	389495.93
35	KSRB - 15-3.9: Providing 20mm thick cement plaster in single coat with cement mortor ,1:4 to stone masonry& convrete surface including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. in cement mortar 1:3	Cum	1912.50	298.79	571435.88	-	-	388.20	298.79	115990.28	388.20	115990.28
36	KSRB 2.3. Filling available Excavated Earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth, compacting each deposited layer by raming after watering with lead upto 50m and lift upto 1.50m including cost of all labour complete as per specifcations.Specification No.KBS 2.9	Cum	1371.00	221.84	304142.64	-	-	0.00	221.84	0.00	0.00	0.00
37	KSRRB M800-29.1. Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 -1997 and approved drawings complete as per specifications. Case - 1: Single row for one utility service	m	224.00	1902.67	426198.08	-	-	0.00	1902.67	0.00	0.00	0.00
38	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3	Sqm	3325.00	7.00	23275.00	-	-	3325.00	7.00	23275.00	3325.00	23275.00
39	KSRRB M400-21. Construction of footpath/separator by providing a 150 mm compacted granular sub-base as per Clause 401 & 25mm thick cement concrete grade M-15, overlaid with precast concrete tiles in cement mortar 1:3 including provision of all drainage arrangementsbut excluding kerb channel complete as per specifications.MORTH Specification No. 409	Sqm	1768.50 1769	759.47	1343122.70	-	-	0.00	759.47	0.00	0.00	0.00
40	Providing and fixing pre cast solid cement concrete kerb stones made out of C C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., completeas per the directions of engineer in-charge	Nos	8688.89 8689	449.69	3907306.44	-	-	2848.00	449.69	1280717.12	2848.00	1280717.12
41	KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens arid welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(Surface grating)	Qntl	30.78 31	7917.45	243659.52	-	-	0.00	7917.45	0.00	0.00	0.00
42	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8	Sqm	1227.74	87.94	107967.46	-	-	0.00	87.94	0.00	0.00	0.00
43	Providing chain link fencing 50mm size o f 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of w ork including two coats of approved quality paint over one coat o f shop paint, including cost of materials, labour,HOM com plete as per specifications.	Sqm	525.00	787.45	413411.25	-	-	0.00	787.45	0.00	0.00	0.00

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Sl.No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
44	Construction of PRE-CAST RCC MANHOLE CHAMBERS of 1:1.5:3 proportion with ordinary port land cement, 20 mm and down size graded jelly, well graded sand, steel of approved quality and size, constructed using form vibrators of standard type. The top cover to be 200 mm thick concrete slab, wall thickness, raft thickness, offset in raft alround the chamber etc. as per the approved drawing. Benching concrete with 1:6 slope towards the central drain, finished smooth,fixing and grouting pipes. Supply and fixing SFRC manhole cover and frame (heavy duty) conforming to IS:12592 with latest amendments,on CC 1:2:4 bed, including necessary conveyance. Supply and fixingfootsteps (as per IS 10910) with 12 mm dia. steel bar (Fe-415),encapsuled in 3 mm thick plastic, fixed with CC block to the walls staggered at 300 mm etc. as detailed in Technical Specifications. Thewhole works includes sand bedding wherever necessary, disposal ofsurplus earth, barricading, danger lighting, sight rails, boning rods,shoring, strutting, watering, curing, engraving manhole number with flow direction on the inner cylindrical surface etc. The cost toinclude the cost of reinforcement steel, its fabrication charges, costand conveyances of all materials, labour, all leads and lifts. The Precast RCC manholes are for	Nos	5.00	32175.46	160877.30	-	-	0.00	32175.46	0.00	0.00	0.00
45	Constructing Pre-cast RCC Manholes 1.2 m internal dia., 1.3 M depth & SFRC cover & frame	Nos	4.00	37891.46	151565.84	-	-	0.00	37891.46	0.00	0.00	0.00
46	Constructing Pre-cast RCC Manholes 1.2 m internal dia., 1.6 M depth & SFRC cover & frame	Nos	5.00	42927.93	214639.65	-	-	0.00	42927.93	0.00	0.00	0.00
47	Constructing Pre-cast RCC Manholes 1.2 m internal dia., 1.9M depth & SFRC cover & frame	Nos	6.00	47883.46	287300.76	-	-	0.00	47883.46	0.00	0.00	0.00
48	Constructing Pre-cast RCC Manholes 1.2 m internal dia., 2.0M depth & SFRC cover & frame	Nos	6.00	49233.50	295401.00	-	-	0.00	49233.50	0.00	0.00	0.00
49	Supplying S&S RCC SPUN / VIBRATED CAST PIPES (REINFORCED) pipes NP-3 Class conforming to IS:458-1988 with latest amendments using ordinary portland cement, for sanitary works and conveying to work site, rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes and specials including cost of specials, perfect linking of joints with jack to correct position including cost of jointing materials, i e, rubber rings conforming to IS: 5382 for S&S RCC pipes, with all leads and lifts as directed and giving necessary hydraulic test as per ISS to the required pressure and commissioning etc. complete. (Contractor will make his own arrangements for procuring water for testing). Before the execution of the work, the contractor shall carry out the survey and will be paid extra for the same as per seperate item.:RCC NP3 Class pipe of 300 mm dia.	Rmt	655.00	1723.79	1129082.45	-	-	0.00	1723.79	0.00	0.00	0.00
50	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision	Sqm	8701.00	30.98	269556.98	-	-	8701.00	30.98	269556.98	8701.00	269556.98
51	KSRRB 500-9. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on granular base such as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications Clause 503 of MORTH V revision	Sqm	10716.00	10.99	117768.84	-	-	9967.28	10.99	109540.35	9967.28	109540.35
52	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with - Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	535.80 536	6659.34	3568074.37	-	-	498.36	6659.34	3318773.65 3318749	498.36	3318773.65 3318749
53	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2 5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.Clause 503 of MORTH V revision	Sqm	10716.00	12.99	139200.84	-	-	10009.73	12.99	130026.33	10009.73	130026.33

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Sl.No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
54	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)	Cum	321.48	7833.51	2518316.79	-	-	321.48	7833.51	2518316.79	321.48	2518316.79
55	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: roviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	513.42	472.67	242678.23	-	-	0.00	472.67	0.00	0.00	0.00
56	KSRRB M800-35. Road markers/Studs Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.	Nos	502.00	371.74	186613.48	-	-	0.00	371.74	0.00	0.00	0.00
57	Retro-Reflectorised Traffic Signs: Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed oundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing.- 600mm Equilateral triangle- TYPE XI	Nos	4.00	2746.08	10984.32	-	-	0.00	2746.08	0.00	0.00	0.00
58	- do-900mm equilateral -	Nos	4.00	3805.33	15221.32	-	-	0.00	3805.33	0.00	0.00	0.00
59	- do-STOP - 900 mm Octogonal type	Nos	4.00	5560.11	22240.44	-	-	0.00	5560.11	0.00	0.00	0.00
60	Direction and Place Identification Signs upto 0.9 sqm Size Board: Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing	Sqm	2.43	7560.70	18372.50	-	-	0.00	7560.70	0.00	0.00	0.00
61	Earth work in excavation for foundation of structures like culverts , retaining walls etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specifications, including cost of labour, HOM etc, complete in all kinds of soil by manual means	Cum	20.27	197.86	4011.32	-	-	0.00	197.86	0.00	0.00	0.00
62	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials,labour, HOM complete as per specifications.MORTH Specification No. 408	Cum	0.54	4746.68	2563.21	-	-	0.00	4746.68	0.00	0.00	0.00

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Sl.No	Description of work	Unit	Schedule B			Previous bill		Present Bill			Total Upto date	
			Qty	Rate	Cost	Qty	Cost	Qty.	Rate	Cost	Qty.	Cost
63	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1).2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 with solid concrete blocks of size 400x200x200mm	Cum	54.00	1004.30	54232.20	-	-	0.00	1004.30	0.00	0.00	0.00
64	Providing rulled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour,HOM curing complete as per specifications in cement mortar 1:4	Sqm	108.00	153.89	16620.12	-	-	0.00	153.89	0.00	0.00	0.00
65	Providing and fixing unplasticised PVC Pipes of 315mm outer dia with working pressure 10kg/sq cm with perporations wrapped with Geotextiles filter fabrics ,pipe fittings,clips,marking good the floor, including cost of all materials,labour charges,HOM and testing complete as per specifications	Sqm	3.00	5206.35	15619.05	-	-	0.00	5206.35	0.00	0.00	0.00
66	providing and filling the recharge pit trenches with stone with sizes of 20 & 40 mm and filler aggregates and Lime stone dust of size 0.075 mm as a top layear over Gravel , packed with stone spalls , 20mm size laid over a layer of 40mm stone aggregate and specific gravity not less than 2.65, , satisfying the requirements laid down in clause 2504.2.2. of MORTH and approved design complete as per specifications MORTH Specification No 704	Cum	20.34	2303.39	46850.95	-	-	0.00	2303.39	0.00	0.00	0.00
67	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500,1700.	Sqm	9.00	1191.17	10720.53	-	-	0.00	1191.17	0.00	0.00	0.00
68	KSRRB M300-9. Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year complete as per specifications.	Each	410.00	1157.19	474447.90	-	-	0.00	1157.19	0.00	0.00	0.00
69	Tree Transplantation Trimming of branches with systematic method, prepration of the ball of earth with respect the age and girth at the breast height of the tree by machinery and skilled labours, digging the pits by J.C.B at Transplantating site proportionately with respect to size of ball, transporation of prepared tree by one or two CRANES as the case may be with the help of technically sound skilled labours load them techinically in truck transport to the destination, watering mixed with chemically prepared root reviver at one liter with 2000 liters of water till its revival, clearing the cut branches and disposal as directed by the engineer incharge. planting of tall tree saplings having wide environmental and aesthetic values having health of 8feet to 10feet at the ratio of 1:2 in the same locality and maintenance as per tree preservation Act 1976. Periodical watering and any other cultural operation required if any over a period of 8 months or till the on set of Mansoon.	Each	46.00 39	20733.48	953740.08	-	-	0.00	20733.48	0.00	0.00	0.00
	SUB TOTAL				46699635.46					29193880.33		29193880.33
	GST 12%				5603956.26					3503265.64		3503266.00
	GRAND TOTAL				52303591.71					32697145.97		32697146.33

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

Sub-total - 2919113₹ -/-
GST 12% - 350236 -/-
Total - 3269000 -/-

Contractor

Consultants

Assistant Engineer

Asst. Executive Engineer

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